

X-RAY-COMPUTERIZED TOMOGRAPHIC INSTRUMENT

Publication number: JP2001299738

Publication date: 2001-10-30

Inventor: MICHAEL D SILVER

Applicant: TOKYO SHIBAURA ELECTRIC CO

Classification:


- international: **A61B6/03; G06T11/00; A61B6/03; G06T11/00;** (IPC1-7): A61B6/03; G01N23/04; G06T1/00

- european: A61B6/03B4; G06T11/00T

Application number: JP20010084988 20010323

Priority number(s): US20000549562 20000414

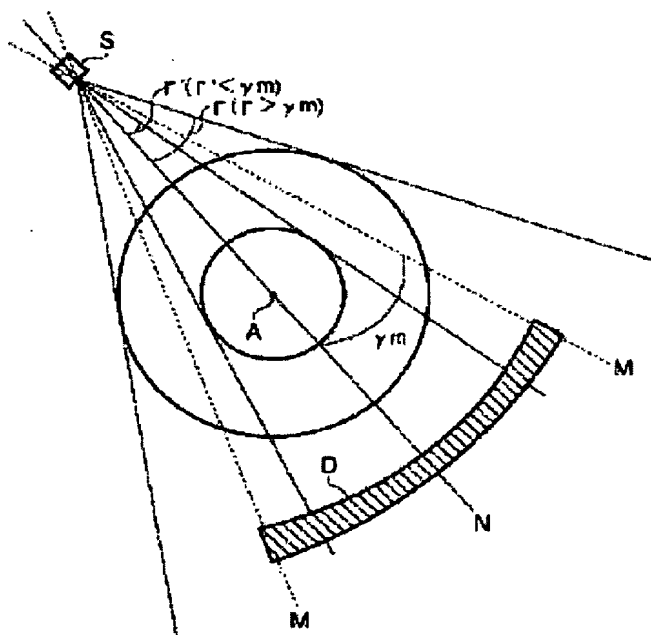
Also published as:

 **US6542570 (B1)**

[Report a data error here](#)

Abstract of JP2001299738

PROBLEM TO BE SOLVED: To conveniently set especially a fan angle to that other than the maximum fan angle determined by the length of arrangement of an element of a detector based on projection data in the range of 180 deg. + the fan angle. **SOLUTION:** The radio-computerized tomographic instrument of the present invention is characterized in that a reconstitution apparatus CP wherein, by using an X-ray source for exposing X-rays and an X-ray detector D for detecting the X-rays irradiated from this X-rays source S, based on projection data within 180 deg. + the fan angle collected by scanning a subject to be examined, an image is reconstituted by a half-scan reconstitution method, is provided and an imaginary fan angle 2γ or γ_m other than the maximum fan angle γ_m determined by the length of arrangement of the element of the detector D is set as the fan angle, and the projection data within 180 deg. + the fan angle are weighted based on a weight factor determined by using the imaginary fan angle and the image is reconstituted based on this weighted projection data.



Data supplied from the **esp@cenet** database - Worldwide